

Datasheet

→ FRTPOI

09/10/2025



Technical data

Push-button contact blocks with print connections

Type	FRTPOI
Series	Contact blocks F RTP...
Rubric	Contact blocks
Approvals	CCC, CE, cURus, ENEC10, VDE, TÜV_Süd, UKCA



→ General data

Design	Round
Illumination	Yes
Operating temperature	-25 °C ... 70 °C
Enclosure colour	Grey
Contact material	AgNi
Storage temperature	-40 °C ... 80 °C
Degree of protection front	IP00

→ Electrical data

Conditional short circuit current	1000 A
Rated operating voltage IEC/EN 60947-5-1	240 V AC 120 V AC 250 V DC 125 V DC 60 V DC 24 V DC

<i>Rated operating current</i> <i>IEC/EN 60947-5-1</i>	1.5 A AC 3 A AC 0.27 A DC 0.55 A DC 1 A DC 2 A DC
<i>Rated insulation voltage</i> <i>IEC/EN 60947-5-1</i>	250 V AC 250 V DC
<i>Rated voltage</i> <i>IEC/EN 61058-1</i>	250 V AC/DC
<i>Rated impulse withstand voltage</i>	2,5 kV
<i>Rated current</i> <i>IEC/EN 61058-1</i>	6(4) A
<i>Contact resistance</i>	< 20 mΩ NO new state < 20 mΩ NC new state
<i>Electrical lifetime</i>	600,000 switching cycles at rated voltage
<i>Utilisation category</i> <i>IEC/EN 60947-5-1</i>	AC15 B300 DC13 Q300
<i>Contact type</i>	1NC 1NO
<i>Short circuit protection SCPD</i>	6 A Char. D
<i>Illuminant</i>	LED optionally retrofittable
<i>Bouncing time</i>	< 10 ms NC < 10 ms NO
<i>Rating</i> <i>information acc. to UL</i>	Pilot duty B300 24 V DC Pilot duty B300 3 A DC
<i>Switching capacity</i>	240 V AC/DC 1.5 A 120 V AC/DC 3 A
<i>Breaking capacity</i> <i>IEC/EN 60947-5-1</i>	10 I _e AC 1.1 I _e DC
<i>Minimum voltage</i>	5 V
<i>Current minimal</i>	1 mA under laboratory conditions
<i>Thermal continuous current</i>	5 A AC

Note

- Optional illumination with Schlegel LED type FRTLED3UW
- With illumination with LED: overvoltage category II (2.5kV), pollution degree 2
- 100,000 switching cycles (at max. switching capacity)

→ Mechanical data

<i>Connection</i>	PCB-mount terminals
<i>Operating travel</i>	2.3 mm
<i>Mechanical lifetime</i>	600,000 switching cycles
<i>Switching function</i>	Momentary function
<i>Tactile</i>	No
<i>Positive opening</i>	Acc. to EN60947-5-1, appendix K

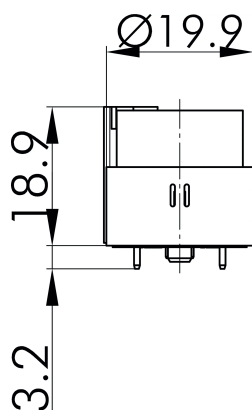
Note on service life with emergency stop

- 30,000 (RKUV28, RRJUV)
- 6050 (RXJUV)

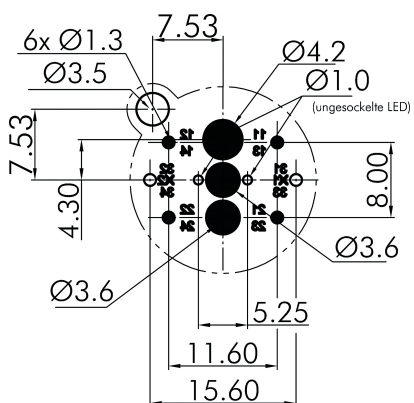
The contact elements must not be used individually. There must always be at least 2 contact elements on the PCB, each of which must be arranged offset by 180°.

Technical drawings

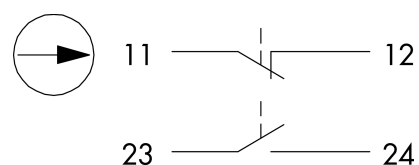
→ Dimensional drawing



→ Cutout dimensions



→ Circuit diagram



→ Switching path diagram

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